

Abstract

A system for forming a patch in a well at a location along a tubular string which has lost sealing integrity includes a central patch body 60, an upper expander body 52 carrying an upper seal 50 or 56, and a lower expander body 98 carrying a lower seal 102, 104. The running tool includes an inner mandrel 14 axially moveable relative to the central patch body, and one or more pistons 20, 30, 20A axially moveable relative to the inner mandrel in response to fluid pressure within the running tool. Top expander 48 is axially moveable downward relative to the upper expander body in response to movement of the one or more pistons, and a bottom expander 120 is axially moveable upward relative to a lower expander body. After the upper expander body and a lower expander body have been moved radially outward into sealing engagement with a downhole tubular string, the running tool is retrieved to the surface.